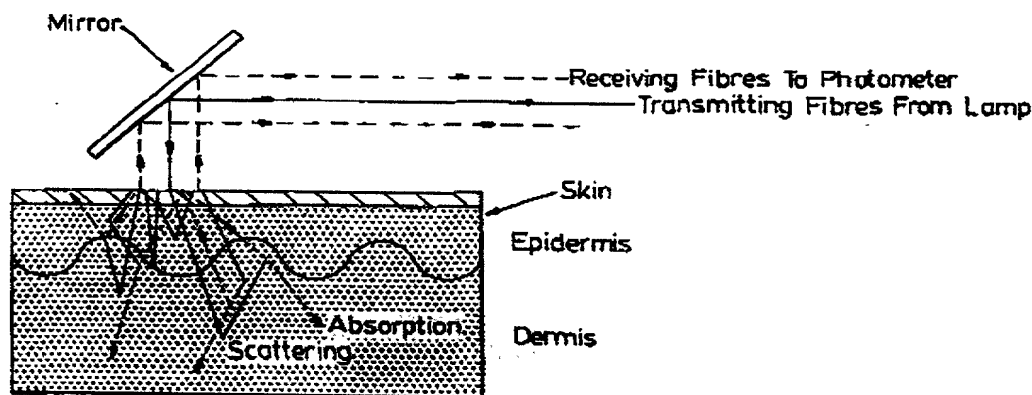


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(71) Applicant (for all designated States except US): WHITLAND RESEARCH LIMITED [GB/GB]; Whitland Abbey, Whitland, Dyfed SA34 0LG (GB).		
(72) Inventor; and (75) Inventor/Applicant (for US only): PARKER, Dawood [GB/GB]; Whitland Abbey, Whitland, Dyfed SA34 0LG (GB).		
(74) Agent: GILHOLM, Steve; Harrison Goddard Foote, Belmont House, 20 Wood Lane, Leeds LS6 2AB (GB).		Published Without international search report and to be republished upon receipt of that report.

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(57) Abstract

There is described a sensor device which comprises light source means for emitting a light beam, photodetector means for receiving the light beam after passing through or being reflected within living tissue and arranged to provide signals corresponding to the intensities of the respective wavelength of light received by the photodetector means characterised in that the sensor device measures blood oxygen saturation. The device can be used in conjunction with a conventional pulse oximeter. There is also described a method of measuring blood oxygen saturation.